

GS 0444 A US

AMENDMENTS TO THE CLAIMS

The listing below of the claims will replace all prior versions and listings of claims in the present application:

Listing of Claims:

1. (canceled)

2. (canceled)

3. (canceled)

4. (canceled)

5. (canceled)

6. (canceled)

7. (canceled)

8. (currently Amended) A continuously variable, belt-driven, conical pulley transmission, said transmission comprising: a pair of conical disks; an endless, torque-transmitting member positioned between and in contact with the conical disks in torque-transmitting relationship; and a control system for a working medium

GS 0444 A US

pressure for hydraulically controlling a contact pressure of a movable pulley conical disk against the endless torque-transmitting member of a continuously variable the transmission, said control system comprising: including one of a pressure control valve and a pressure reduction valve, which can be that is operatively connected with the movable conical disk and is controlled via a control means by a control variable in order to adjust a working medium pressure acting on the movable pulley conical disk within a nominal pressure range and a maximum pressure range, wherein the maximum pressure range is between a system pressure value and the nominal pressure range, including an actuation means for the pressure control valve or pressure reduction valve that actuates a valve body member beyond a specified value of the control variable in such a way that with equal changes of the control variable the working medium pressure in the maximum pressure range changes more than in the nominal pressure range, and a control conduit connected with the control means and extending between and operatively connected with the actuation means and with the pressure control valve or pressure reduction valve for conducting a pilot pressure produced by the control means to the actuation means and to the pressure control valve or pressure reduction valve, whereby the control system operates to provide precise control of a contact pressure between the conical disks and the endless torque-transmitting member in the nominal pressure range and in the maximum pressure range, to prevent slippage between the conical disks and the endless torque-transmitting member.

GS 0444 A US

9. (currently amended) A ~~control system~~ transmission in accordance with claim 8, wherein the pressure control valve or pressure reduction valve includes a valve body member that is operated by a control medium serving as a control variable.

10. (currently amended) A ~~control system~~ transmission in accordance with claim 8, wherein the proportional valve modulates the control medium pressure for the pressure control valve or pressure reduction valve from the pilot pressure as a function of its selection.

11. (currently amended) A ~~control system~~ transmission in accordance with claim 8, wherein the control means is a proportional valve that modulates the control variable from a pilot variable.

12. (currently amended) A ~~control system~~ transmission in accordance with claim 11, wherein the pilot variable is a pilot pressure and wherein the control means is a proportional valve that can be controlled electrically.

13. (currently amended) A ~~control system~~ transmission in accordance with claim 12, wherein the proportional valve modulates the control medium pressure for the pressure control valve or pressure reduction valve from the pilot pressure as a function of its selection.

GS 0444 A US

14. (currently amended) A ~~control-system~~ transmission in accordance with claim 8, wherein the valve body member of the pressure control valve or pressure reduction valve includes a pressure feedback surface against which the working medium pressure is applied.

15. (currently amended) A ~~control-system~~ transmission in accordance with claim 14, wherein the actuation means is an on-off valve and is arranged downstream from the pressure feedback surface, and the actuation means is actuated by the control means, and wherein beyond a defined value of the control variable the pressure feedback to the pressure feedback surface is at least restricted.

16. (currently amended) A ~~control-system~~ transmission in accordance with claim 15, wherein the on-off valve can be controlled via the control medium pressure.

17. (currently amended) A ~~control-system~~ transmission in accordance with claim 15, wherein the on-off valve can be actuated electrically via the at least one control means.

18. (canceled)

GS 0444 A US

19. (currently amended) A method for operating a control system for a working medium pressure for hydraulically controlling a contact pressure of a movable pulley conical disk against an endless torque-transmitting member of a continuously variable transmission, said method comprising the steps of: controlling a pressure control valve that is operatively connected with the movable conical disk, wherein control is via a control means by a control variable for adjusting a working medium pressure acting on the movable pulley conical disk within a nominal pressure range and a maximum pressure range, wherein the maximum pressure range is between a system pressure value and the nominal pressure range; actuating a valve body member of the pressure control valve beyond a specified value of the control variable so that with equal changes of the control variable the working medium pressure in the maximum pressure range changes more than in the nominal pressure range; and conducting a pilot pressure from the control means to an actuation means operatively connected with the pressure control valve or pressure reduction valve and to the pressure control valve or pressure reduction valve, whereby the control system operates to provide precise control of a contact pressure between a pair of conical disks and the endless torque-transmitting member in the nominal pressure range and in the maximum pressure range, to prevent slippage between the conical disks and the endless torque-transmitting member.

20. (previously presented) A method in accordance with claim 19, wherein the pilot pressure is operative in a direction against respective spring

GS 0444 A US

forces acting within the actuation means and within the pressure control valve or pressure reduction valve.

21. (previously presented) A control system in accordance with claim 8, wherein the pilot pressure is operative in a direction against respective spring forces acting within the actuation means and within the pressure control valve or pressure reduction valve.